AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1 – 9. (cancelled)

10. (currently amended) An image processor for receiving camera images taken with a plurality of cameras capturing the surroundings of a vehicle and generating a synthesized image from the camera images, the synthesized image having a plurality of areas each including at least one pixel and each camera image having a plurality of areas each including at least one pixel, the image processor comprising:

a parameter storage section for storing a plurality of sets of an image synthesis parameter group, each image synthesis parameter group representing a correspondence between any of the areas of the camera images and any one of the areas of the synthesized image, and a filter parameter group corresponding to each image synthesis parameter group, each filter parameter group having a plurality of filter parameters and each filter parameter having a correspondence with an area of the camera images ~~representing the correspondence between the camera images and the synthesized image and a filter parameter group corresponding to the image synthesis parameter group~~;

a parameter selection section for selecting at least one among the plurality of sets of the image synthesis parameter group and the corresponding filter parameter group stored by the parameter storage section according to a motion of the vehicle

detected by a vehicle motion detection section and an output of a vehicle status detection section for detecting the status of the vehicle such as an operation by a driver of the vehicle or whether or not an obstacle exists in the surroundings of the vehicle; and

a filtering section for performing frequency band limitation filtering of the camera images according to the filter parameter group of the set selected by the parameter selection section,

wherein the synthesized image is generated from the camera images filtered by the filtering section according to the image synthesis parameter group of the set selected by the parameter selection section to generate the synthesized image with optimal quality to reduce aliasing distortion.

11. (original) The image processor of Claim 10, wherein the filter parameter group includes filtering setting data for each pixel position of the camera image.

12. (currently amended) A monitoring system comprising:

a plurality of cameras for capturing the surroundings of a vehicle;

an image processing section for receiving camera images from the plurality of cameras and generating a synthesized image from the camera images, the synthesized image having a plurality of areas each including at least one pixel and each camera image having a plurality of areas each including at least one pixel; and

a display section for displaying the synthesized image generated by the image processing section,

wherein the image processing section comprises:

a parameter storage section for storing a plurality of sets of an image synthesis parameter group, each image synthesis parameter group representing a correspondence between any of the areas of the camera images and any one of the areas of the synthesized image, and a filter parameter group corresponding to each image synthesis parameter group, each filter parameter group having a plurality of filter parameters and each filter parameter having a correspondence with an area of the camera images ~~representing the correspondence between the camera images and the synthesized image and a filter parameter group corresponding to the image synthesis parameter group~~;

a parameter selection section for selecting at least one among the plurality of sets of the image synthesis parameter group and the corresponding filter parameter group stored by the parameter storage section according to a motion of the vehicle detected by a vehicle motion detection section and an output of a vehicle status detection section for detecting the status of the vehicle such as an operation by a driver of the vehicle or whether or not an obstacle exists in the surroundings of the vehicle; and

a filtering section for performing frequency band limitation filtering of the camera images according to the filter parameter group of the set selected by the parameter selection section,

wherein the synthesized image is generated from the camera images filtered by the filtering section according to the image synthesis parameter group of the set

selected by the parameter selection section to generate the synthesized image with optimal quality to reduce aliasing distortion.

13 – 23. (cancelled)